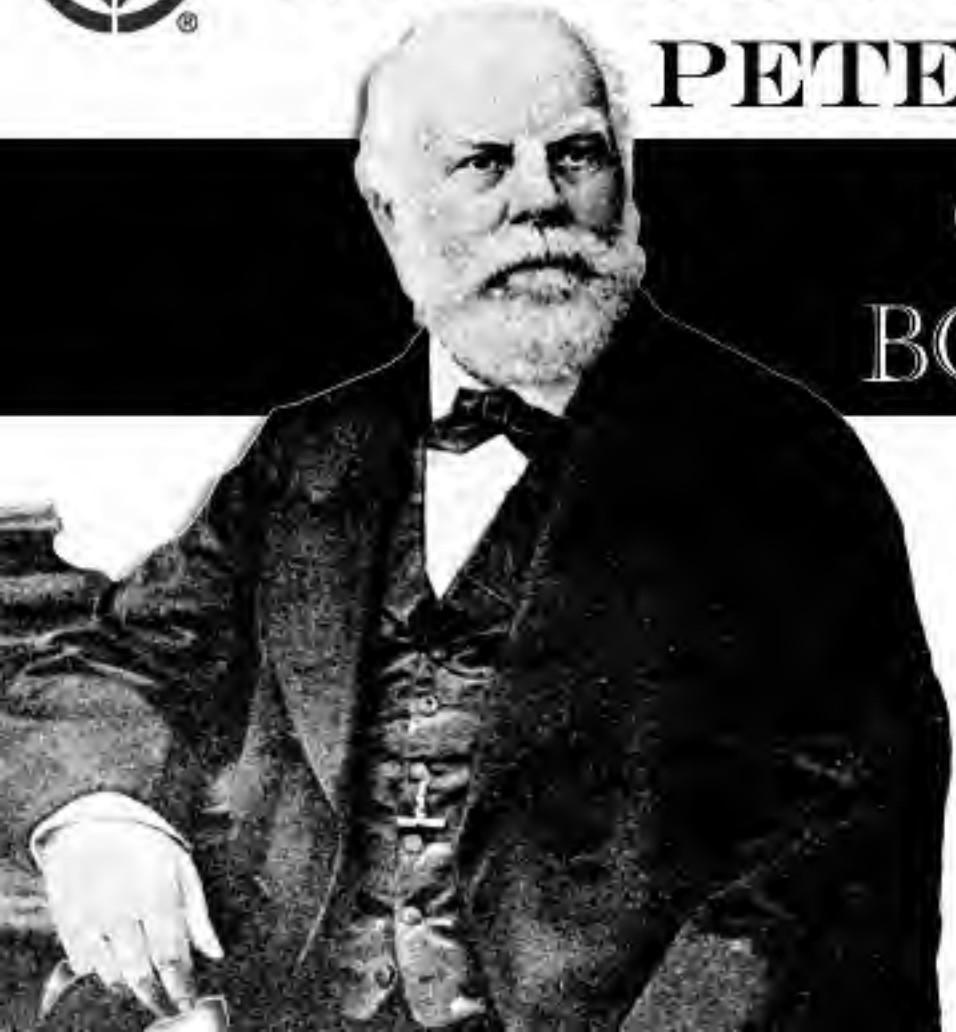




MISSOURI BOTANICAL GARDEN

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GEORGE ENGELMANN BOTANICAL NOTEBOOKS

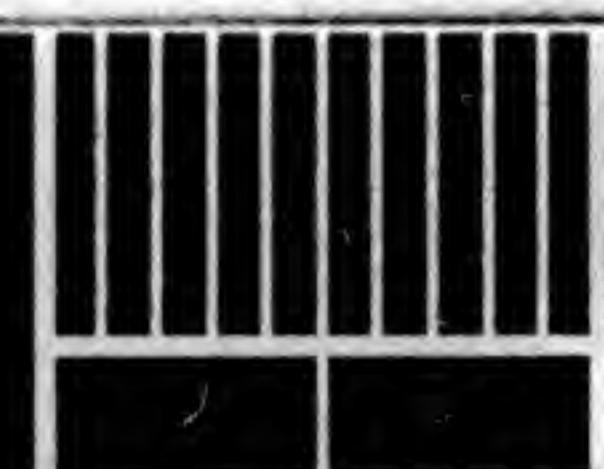
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20' - 1300

half the tree ~~the~~
 or $\frac{24}{2}$ = 12 feet at the top into
 10' - 3000

Suppose half the tree grows ~~the~~
 the other half ~~(10 feet)~~ at the rate of 6 mm
 6 mm a year - 1 foot = 50 years
 if mm a year - 1 foot 300 years

R. MACEWELL & CO.
 COR. PARK AVE. & 10TH (or South) ST.,
 ST. LOUIS,
 MO.
 6 mm a year = 25 feet
 1 mm = a year
 1000 years
 5 feet = 1500 years
 would give an age of
 1250 years
 7500 years

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cm

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MISSOURI
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No.

St. Louis,

187

R. 25: 1
100 = 287 mg
25 = 57 mg
37 = 26 mg
126 = 10 mg
25/600 = 700 mg
2600 mg

~~Ferrum oxydabile~~
~~6 m = a year~~
~~O. galactum~~

Soluble carbonate of the oxide of Iron

1-2 drams a day

800 mg

10807A

30
10

Sept
10

10807B

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MISSOURI
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Pough 20 July Copy. monong ^{ans} 28

? - 27 July — Sat Copy ^{ans} 43

? — 8 Aug — Meadow 19

? — 21 — Calyst. 1 Sp.

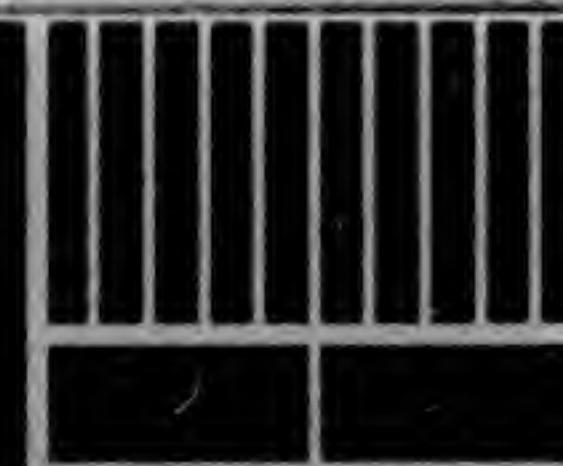
? — 24 — Calyst.

? — 12 Sept.

? — 13 — Port.

Wm. an Briggs letter

of ~~20~~ = 27 Aug 1889



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MISSOURI
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Cupressus sent from Monterey by

C.G. Purdy July 1882

1, Coast tree ^{about} cones globose to oval
with 10-12 scales, smaller ones
10-11 long in both dimensions
larger 12 l. thick, 16 long

2, Smaller tree or bush, bark, on granite
poor soil, with Pinus nut sets.
1-10 feet high, to 6 inch diam.

Cones globose, shorter, oval,
smaller 7-8 cm diam, with 7-8
scales (the last pair small & incomplete)
larger globose cones 10-11 l. diam
with 8 scales
largest oval, 12 scales, 10-11 x 15
cm².



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When the child **CANNOT DIGEST MILK**, Mellin's Food *simply dissolved in hot water* has proved very useful in many cases; or,—

The following is a good diet:

First meal, 7 a.m.: One teaspoonful of Mellin's Food for Infants, dissolved in a teacupful of veal broth and barley-water, equal parts.

Second meal, 11 a.m.: One teaspoonful of cream in a teacupful of fresh whey.

Third meal, 2 p.m.: The unboiled yolk of one egg, beaten up with fifteen drops of brandy, a tablespoonful of cinnamon water, and a little white sugar.

Fourth meal, 5 p.m.: Four ounces of beef tea (a pound to the pint).

Fifth meal, 11 p.m.: Same as first.

As the digestive organs gain tone, milk may gradually replace the veal broth and barley water.

(See "Eustace Smith on the Wasting Diseases of Infants and Children.")

Mellin's Food is for sale by all druggists. It has been used with most unequivocal success in Europe and America. It is prepared upon the principles advanced by Liebig. A sample bottle with a pamphlet containing analysis and description will be sent free to any address upon application.

THEODORE METCALF & CO.,

41 CENTRAL WHARF, BOSTON, MASS.

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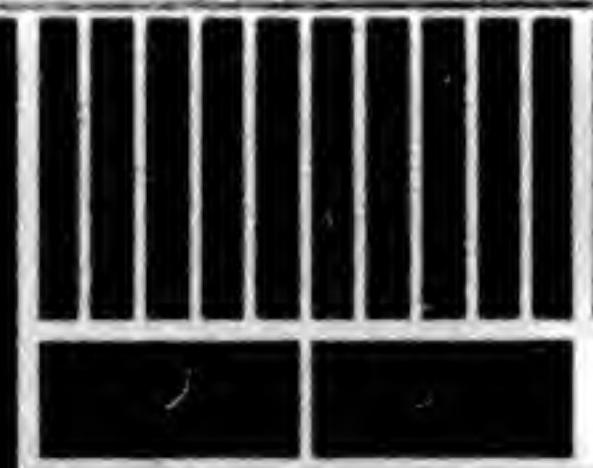


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Cypressus

Merry botter
at the garden



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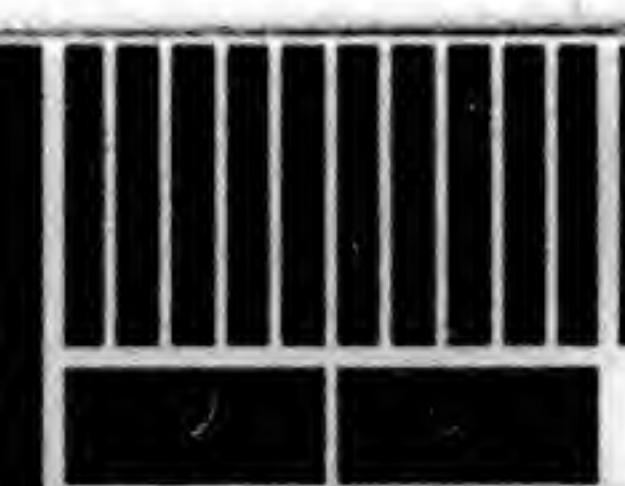
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1081

Cupressas
Gardener
 You are respectfully requested to call and
 examine my direct importation of fine Holiday
 Goods, purchased personally in Vienna by my
 representative when abroad, Mr. J. F.
 Schmidt, consisting of

LADIES' WORK BOXES,
 JEWEL and GLOVE CASES,
 RUSSIA LEATHER and PLUSH GOODS,
 IVORY GOODS,

ODOR and DRESSING CASES,

CUT GLASS, BOHEMIAN TOILET SETS,

ETC., ETC.

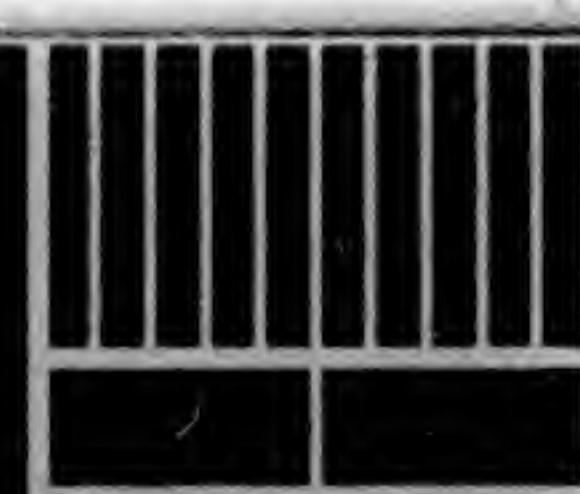
Thankful for your kind patronage and
 confidence in the past, I hope to merit a
 continuance of your esteemed favor.

Very respectfully,

C. E. S. MACDONALD,
 3000 Olive Street.

St. Louis, December, 1881.

A Full Line of Prang's Christmas and New Year Cards.



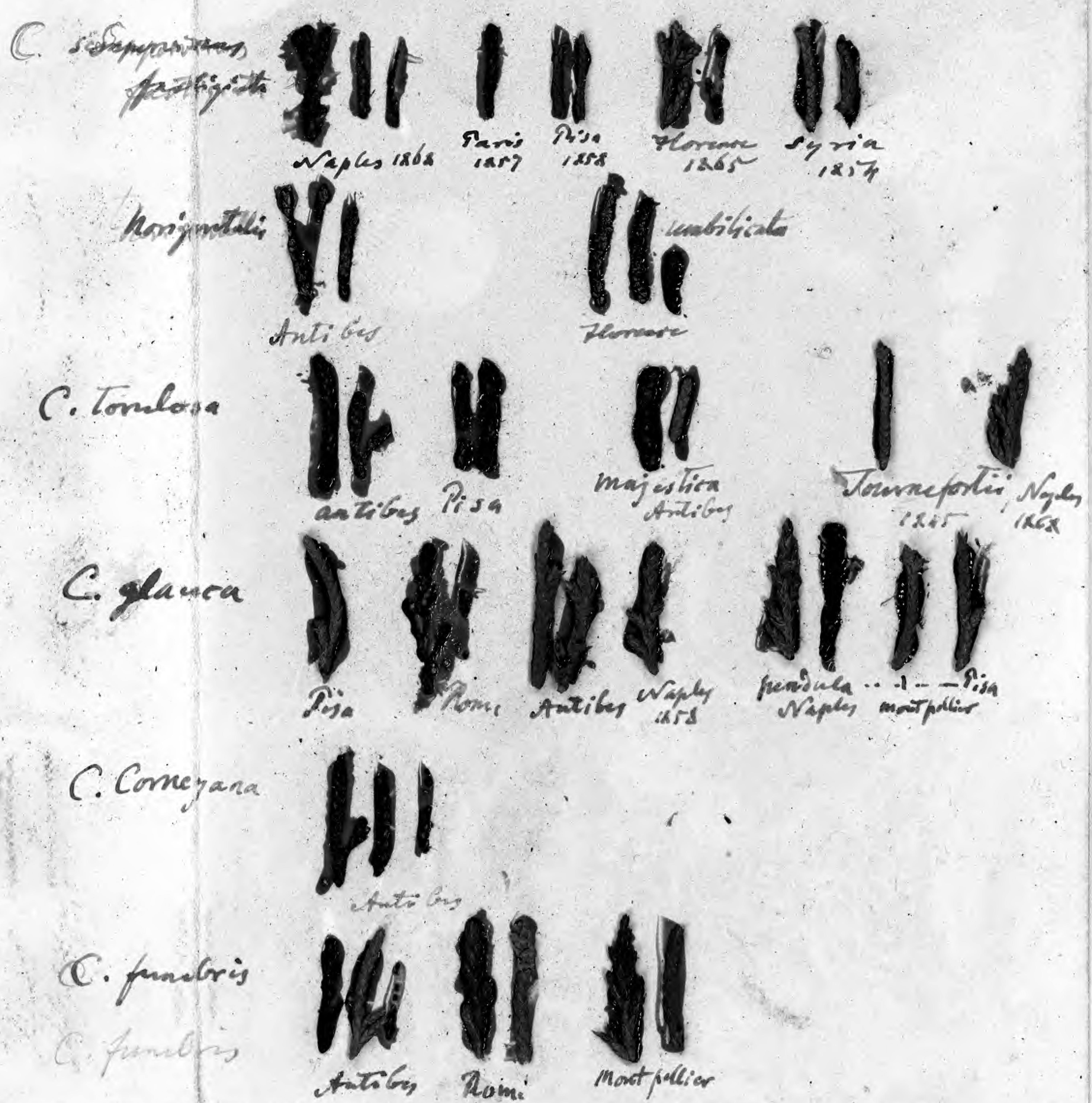
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Cupressus
Arizonae

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Coll Jessup. N York Museum Sept 1883

Cupressus macrocarpa, Monterey by Bringle

20½ inches diam = 0.520 meter

bark 0.020 - 0.022 met. thick

sap. light brown, 20-22 rings 0.025 mm
wood reddish 62 rings - 0.215 mm

Bark thick, deeply cracked, or slit,
slits branching, somewhat scaly

Coll Jessup N York Mus.
Sept 1883

Cupressus Govinciana Santa Cruz Mts
by Bringle

13½ inches diam = 342 mm.

bark, thin, only 4 mm

sap 90-130 mm, 12-14 rings

wood 10-11 mm, only 11 rings, pale
yellow

Bark thin, cracked, with long
very shallow grooves



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10813

Seinen Sch. Goll & Co für Rechnung des Herren
Joh. David auf deren Creditthruß vom 14 Junii 1883
110 & 120 in

Wichtig empfangen zu haben, bescheinigt
Augebürscheinlich gültig.
für am Main, den
18

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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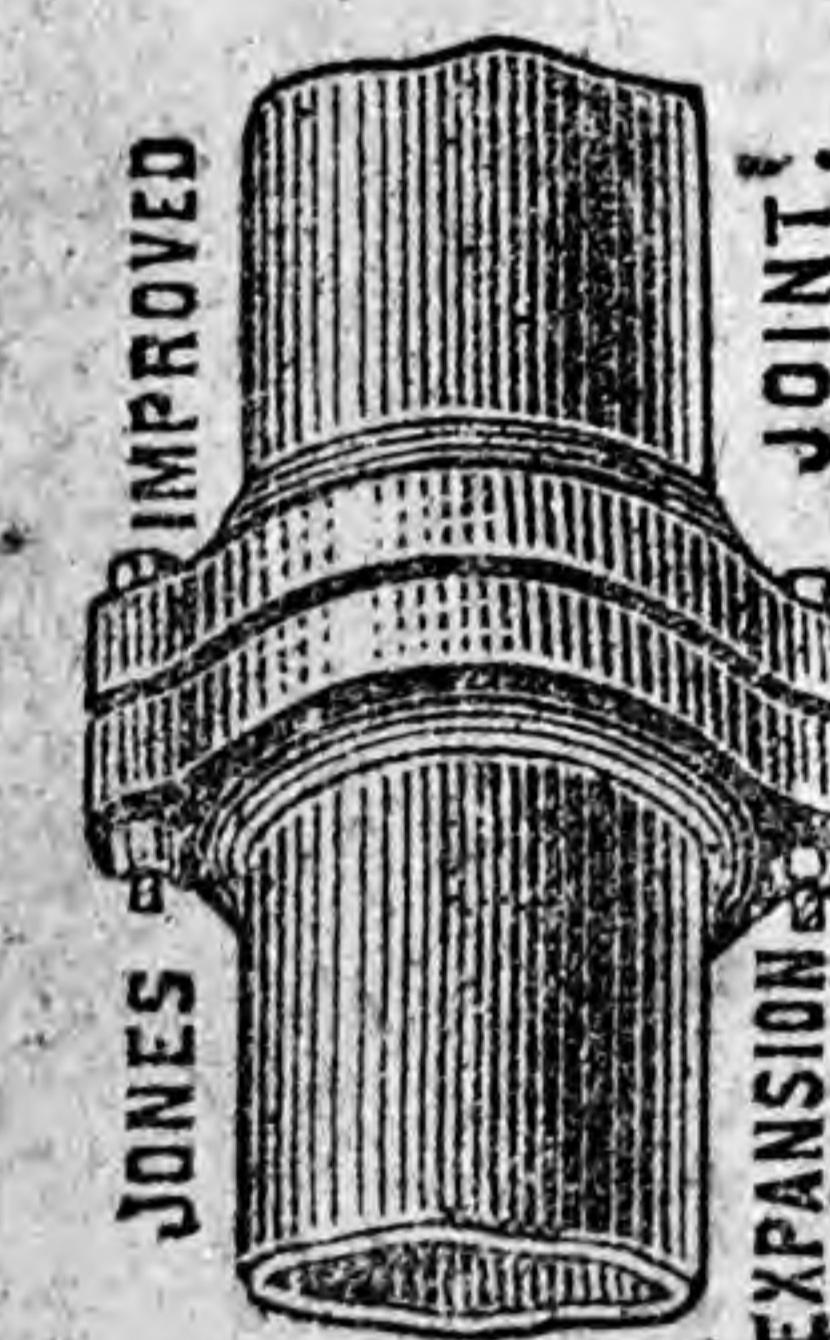
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JONES & ATTWOOD.

ENGINEERS & IRONFOUNDERS,
STOURBRIDGE.



THE
B E S T
HOT-WATER
JOINT.
JONES & ATTWOOD'S
IMPROVED
EXPANSION
JOINT!

Medal Awarded, Horticultural Show, Aston, 1875.

SIMPLE,
DURABLE,
NEAT,
CHEAP.

Specially adapted
for
CHURCHES,
SCHOOLS,
MANSIONS,
PUBLIC
BUILDINGS, &c.
PATENT
HOT-WATER COIL.

Illustrated CATALOGUE; also Estimates for Heating with
the most improved BOILERS; EXPANSION JOINT PIPES,
or COILS, on application.

Sole Makers,
SILVESTER & SAINSBURY,
CASTLE HILL FOUNDRY, NEWCASTLE,
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THOS. W. ROBINSON,
DENNIS PARK IRONWORKS, STOURBRIDGE
MANUFACTURER OF
HOT-WATER PIPES,
IMPROVED "EXPANSION JOINT" PIPES,
BOILERS,

SPOUTING, PUMPS, TANKS, WROUGHT-IRON TUBING,
And every description of Ironwork for Horticultural and
Building Purposes.

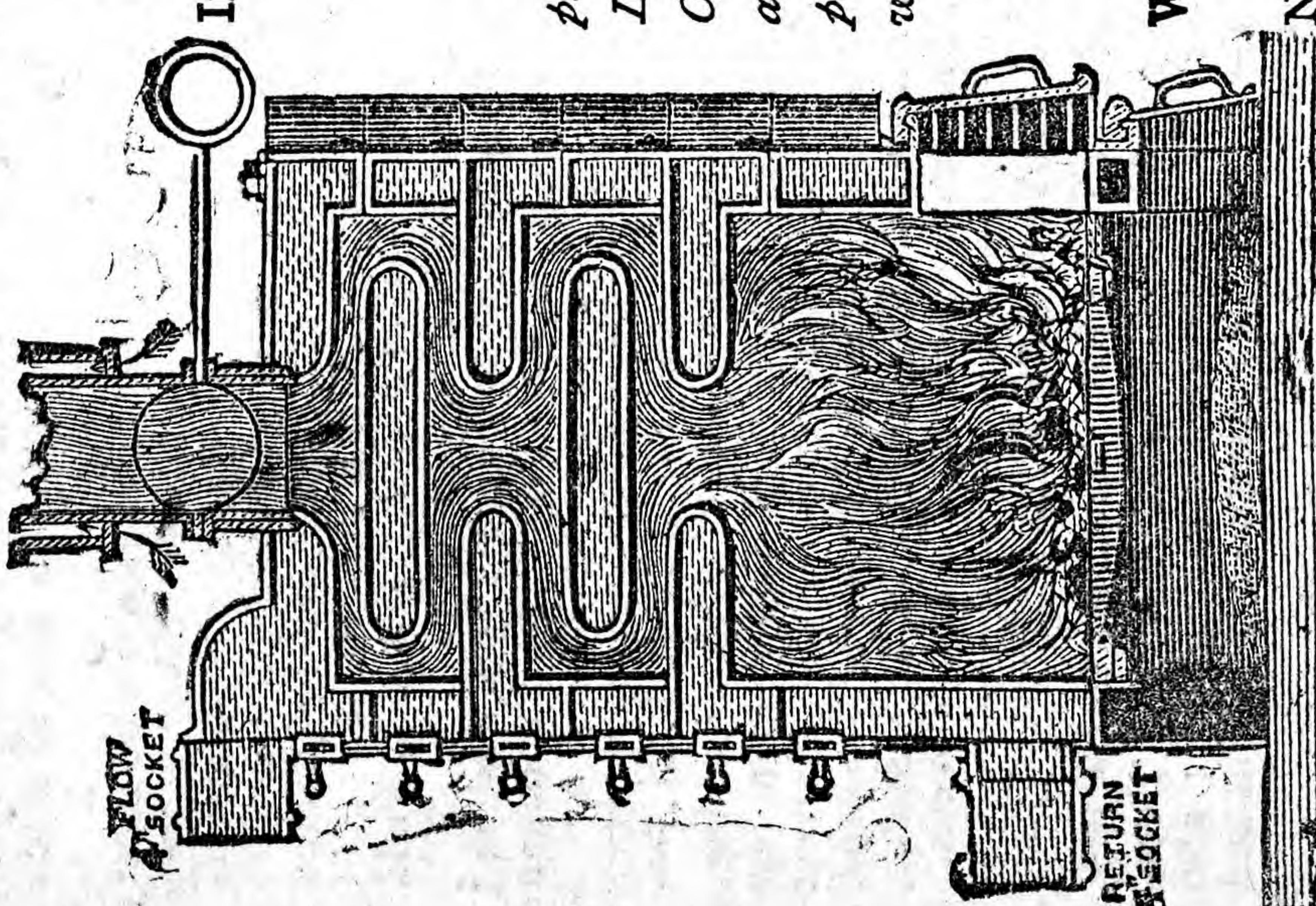
SOCKET HOT-WATER PIPES.

	s.	d.	s.	d.	s.	d.
Pipes (6 ft. long)—2-in.,	1	6	3-in.,	2	8	4 each.
" (9 ft. long)—	—	—	" 3	9	" 4	6
Elbows (No. 12)—	1	1	" 1	8	" 2	0
Tees (No. 33)—	1	5	" 2	4	" 3	3
Syphons (No. 23)—	1	3	" 2	0	" 3	0

"Expansion Joint," Hot-water Pipes.

Sole English Medallists at Philadelphia for the Best
Hot-water Apparatus.

Wright's Patent "Endless-Flame Impact"
Hot-water Boilers.



EIGHT PRIZE MEDALS.

ADVANTAGES.

- Are entirely free from SMELL.
- Are not POISONOUS.
- Are manufactured without PHOSPHORUS.
- Are perfectly harmless to the OPERATIVES.
- EMPLOYED
- Are very Damp Proof
- Are not liable to Spontaneous Combustion
- Light only on the Box.

CAMBRIC

Children's,	1/11	s.	HEMSTITCHED
Ladies'	2/11	s.	Ladies'
Gents'	4/9	d.	Gents'

All Pure Flax.

POCKET

HANDKERCHIEFS.

SAMPLES POST-FREE.

ROBINSON and CLEAVER,

MANUFACTURERS TO THE QUEEN, BELFAST.

IMPORTANT NOTICE.—Advertisers are cautioned
against having Letters addressed to INITIALS,
or to FICTITIOUS NAMES, at Post-offices, as
Letters so addressed are not forwarded, but are sent
at once to the Returned Letter Office.

This joint, being easily removed, is specially adapted for
Tenants.

	s.	d.	s.	d.	s.	d.
Pipes (6 ft. long)—2-in.,	1	5	3-in.,	2	3	4-in., 2 11 each.
" (9 ft. long)—	—	—	" 3	4	" 4	3
Elbows (No. 3)—	0	8	" 10	0	" 1	0
Tees (No. 13)—	0	11	" 1	2	" 1	4
Syphons (No. 16)—	1	0	" 1	4	" 1	6

Joint complete, with Rubbers and Pins, 2-in., 10d. each;
3-in., 1s. 2d.; 4-in., 1s. 4d.

Delivered into Trucks or Boats. Illustrations and Price Lists free.

Terms—Cash against Invoice less 2½ per Cent. Discount.

ALL CASTINGS SUPPLIED OF FIRST QUALITY ONLY.

ADIE'S PATENT LAWN EDGER.

THIS Machine constantly employed
will pay itself in two days. Dr. Hogg, in the
Journal of Horticulture, says—"This Edge Clipper
we have tried, and know not which to admire
most—its simplicity or efficiency." Mr. Moore,
in the *Florist*—"This new ma-
chine does its work rapidly and
admirably, the grass being cut
with precision, and" he further
adds, "the use of it will, we have
no doubt, become general." Prices 27s. and 30s.

Wm. Wright & Co.,
AIRDRIE
Near Glasgow, N.B.

WANTED, a WORKING GARDENER,
who understands his business in all its branches—a
married man, whose Wife could Manage a Small Dairy.—Rev.
H. ROBINSON, Westfield, Hawkhurst, Kent.

WANTED, a SECOND GARDENER,

with good character and thorough knowledge of the

profession, without encumbrance preferred. Lodge and coals

provided. Wife to open gate.—State wages required, and all

particulars, by letter only, to W. H. WORTHINGTON, Esq.,

Derwent Bank, Derby.



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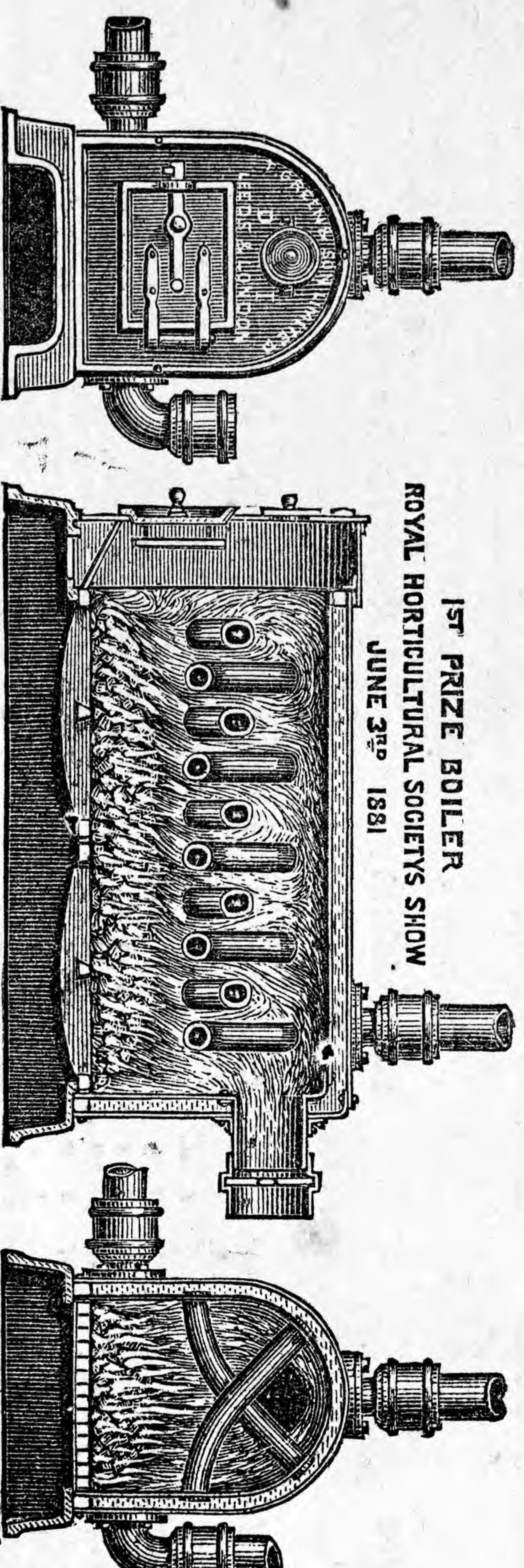
for COMING MOURNING
BOUQUETS, &c. For full particulars, see Price List.

B. FADDERJAHN, 16, RITTER-STRASSE, BERLIN S., GERMANY.

GREEN'S PATENT TUBULAR SADDLE BOILER

Had the First and Highest Prize, a Silver Medal,

Awarded at the Royal Horticultural Society's Exhibition, South Kensington, London, on June 3, 1881.



1ST PRIZE BOILER

ROYAL HORTICULTURAL SOCIETY'S SHOW

JUNE 3rd 1881

The "Journal of Horticulture" of June 9 says:—
"HEATING APPARATUS.—A great number of boilers, valves, &c., were exhibited by eight competitors, and considerable interest was manifested in the verdict of the judges, and much discussion was brought to bear on the merits and shortcomings of the different boilers. The apparatus for which the Silver Medal was awarded was a wrought-iron saddle boiler, with a series of intersecting tubes, somewhat in the form of the letter X, but the tubes in *ogee* form, in the crown of the boiler. Most gardeners who examined the boiler expressed a favourable

opinion of it. It is no doubt a quick and powerful boiler without being complex, the latter condition having, no doubt, had weight with the judges."

The "Garden" of June 11 says:—

"The premier prize, a Silver Medal, was taken by Messrs. Green & Son for their new patent tubular saddle boiler. It is a modification of their original patent, the boiler being longer and not so high. It is found to be a powerful and efficient boiler, and heats a large quantity of water quickly with a small consumption of fuel."

Descriptive Illustrated Price LIST free on application to

THOMAS GREEN AND SON (LIMITED),

SMITHFIELD IRONWORKS, LEEDS,

And 54 and 55, BLACKFRIARS ROAD, LONDON, S.E.

This VARNISH is an excellent substitute for oil paint on all outdoor work, while it is fully two-thirds cheaper. It was introduced upwards of thirty years ago by the advertisers, and its genuine good quality, notwithstanding a host of unprincipled imitators, is fully attested by its constantly increasing sale. It may be applied by an ordinary labourer, requires no mixing or thinning, and is used cold. It is used in the grounds at Windsor Castle, Kew Gardens, and at the seats of many hundreds of the Nobility and Gentry, from whom the most flattering testimonials have been received.

Sold in Casks of about 30 gallons each, at 1s. 6d. per gallon at the Manufactory, or 1s. 8d. per gallon carriage paid to any Station in the Kingdom.

UNSOLICITED TESTIMONIAL.

"Piercefield Park, June 21, 1876.—Sirs,—I have this day forwarded from Chepstow to your address a black varnish cask, to be filled and returned with as good Varnish as the last we had, which I candidly admit was the best we ever had. Address Varnish to Piercefield Park, Chepstow.—I am, Sirs, yours

respectfully, Wm. Cox."

C A U T I O N.—Hill & Smith would particularly warn their Customers against the various cheap Varnishes now so much advertised.

H. & S.'s Varnish has been an article of common use on most of the large estates in the kingdom for upwards of thirty years; and their constantly increasing trade in it, and the numerous Testimonials they receive, stamp it as a truly genuine article. Every cask is legibly marked with their name and Registered Trade Mark as above, without which none is genuine. Large Illustrated CATALOGUE of Fencing, Hurdles, Field and Entrance Gates, &c., sent free on application to

HILL AND SMITH, Brierley Hill Ironworks, Staffordshire; 118, Queen Victoria Street, London, E.C.; and 180, Buchanan Street, Glasgow.

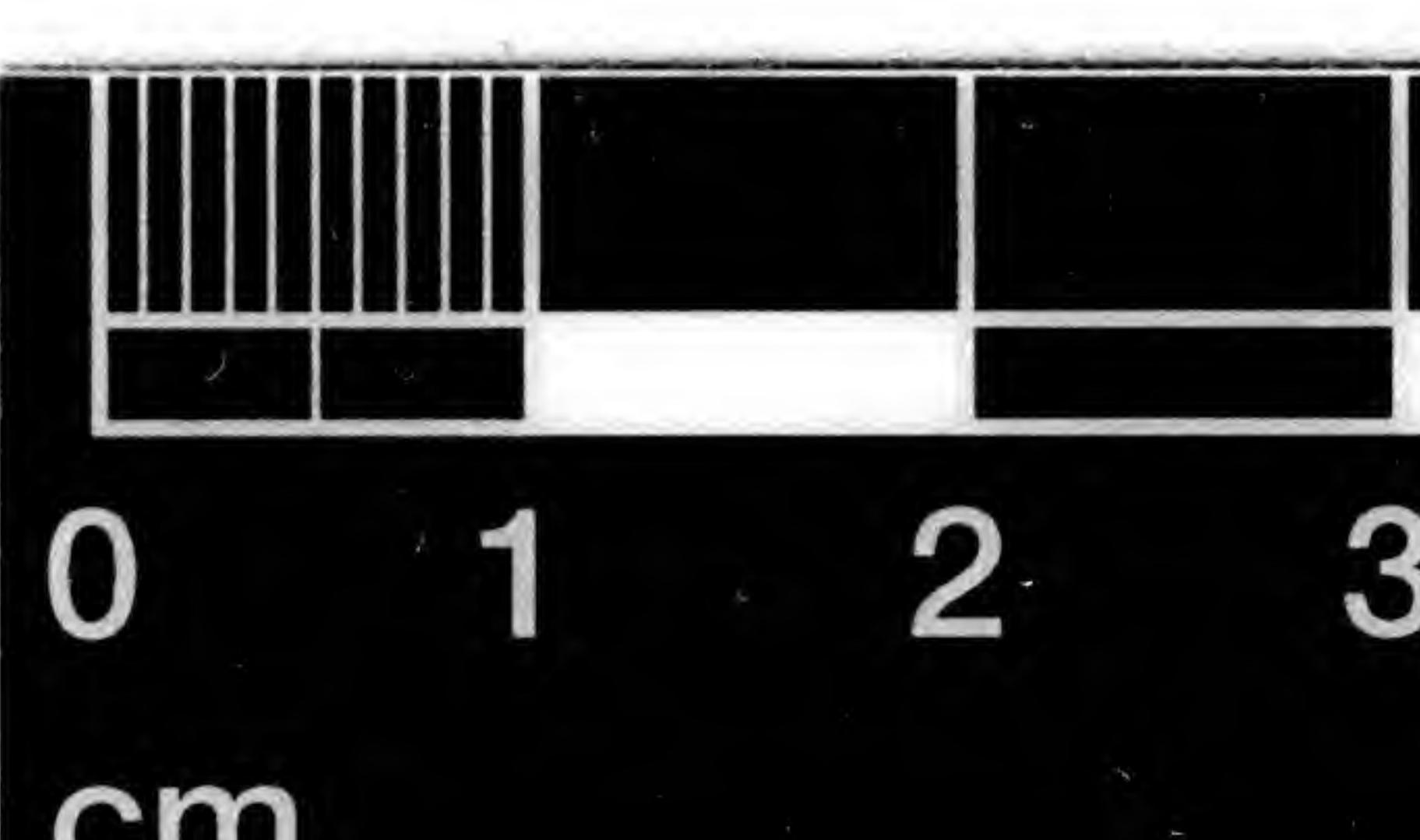
TRANSPLANTING TREES.

A Patent, Expedient, Economical, Labour-saving, Powerful Implement, £2 2s., removes large trees in a few minutes, with large section of earth and roots uninjured. Extract sent from *Gardeners' Chronicle*, March 5; *Chambers' Journal*, May 2; *Field*, June 2; *Design and Work*, Aug. 20, 1881.—Agent, Mr. J. CHARLTON, Landscape Gardener, Tunbridge Wells.

Geometrical Mosaic and Encaustic

TILE PAVEMENTS, for Conservatories, Verandas, Entrance Halls, &c. Enamelled and Deco- rated Glazed Tiles, for Wall Linings, Fireplaces, &c.; also Patent Indestructible Terra-cotta Plant Markers. Patterns and Prices sent post-free on application.

MAW AND CO., Bentham Works, Broseley, Shropshire.



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xenmon or *Sequoia*

in Bol Guyette Oct 1878



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C. 1950, EUGENE L. MANN PAPERS

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407, O'Farrell St.,
Nov/19th San Francisco, Cal.

Sept. 12, 1882.

Dear Dr. Engelmann,

Returning from a trip
to the Shasta region I
find your letters of August
19th and Sept., 1st - which
I read with usual deep in-
terest and am eager to hear
your conclusion after examining
my specimens. You will find
heartwood not so dark as
that of the specimen from the
old tree cut on Cypress Point,
perhaps. I want to go north
again and examine *C. formosa*
where it extends down to the sea
or pass into *C. macrocarpa*(?)
as Dr. Kelley indicates the locality.
Be sure I shall get good wood of
C. menziesiana - and ends.
Yours frithly,

C. G. Pringle.



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NOTHING BUT THE ADDRESS CAN BE PLACED ON THIS SIDE.



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Acc July 5
Tucson, Arizona.

June 29, 1882.

Dear Dr. Cushman;

Yes, the bark of younger
trees of this Arizonaan
Cypress, as well as that on
branches of large trees, is scaly
and feels somewhat in the
manner of that of *Platanus*,
though in small pieces.

Your finding my last-pm
specimens to be *P. cambricus*
leads me over the Sta. Catalina
Mts. again yesterday with my as
sistants to bring down a trunk
9 inches in diameter on our
shoulders. Side-brownish
tree a foot in diameter.
Yours faithfully,

L. S. Grings.



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Geo. Engelmann, M.D.
309 Locust St.,
St. Louis,
Mo.

L1801:



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No July 26.
Ans - 28

Monterey, Calif.

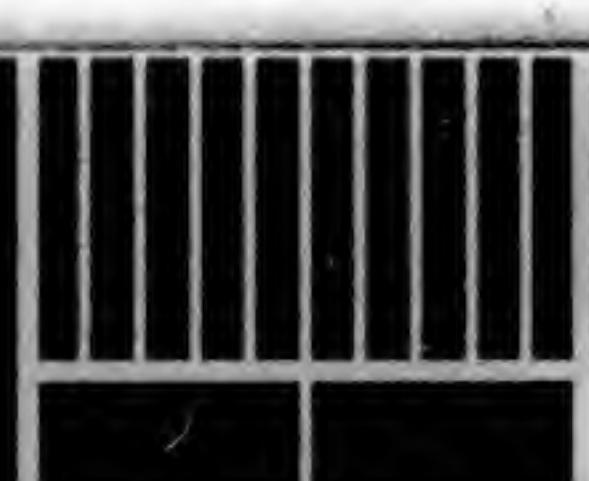
July 30, 1882.

Dear Dr. Engelmann:

Am getting at the
Cypresses. Remembering your saying
that you got only a slice of bark of
the Monterey Cypress I have mailed
to you a chip which will show
you heart wood and sap wood
as well as bark.

In another parcel I send you
two little bundles of cypress twigs
with fruit. One of these, the smaller,
you will recognize as *C. macrocarpa*,
the other includes various specimens
of the dwarf cypress of the hills
back of Cypress Point.

Is this anything but a depauper-
ate form of the tree on the shore?
On an area of perhaps half a mile



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I have expected to considerable extent the willows
of this Point on Minnesota and have seen neither the
Garry nor Pinus americana in any other place. Pinus nigra
is common along the lakeshore over there; and the Garry and other
pine are not so mingled with this species.

Some I have seen are northward, especially among the other

species. Yours sincerely,

C. E. Grinnell.

Carey Academy of Science,

Sacramento.

P.S. Thanks for the Ligustrum specimen, which I hope is the
sort of Pinus you collected, as we yet in flower; but I do not
(and don't know) specimens with flowers, unless those
you collected it is a late bloomer. Perhaps your "Pine" is also that the rose
is his? I suppose, as he claims, it's much smaller to Dr. Gray, according to
which I suppose the size of the tip justify and account, it has knowledge.



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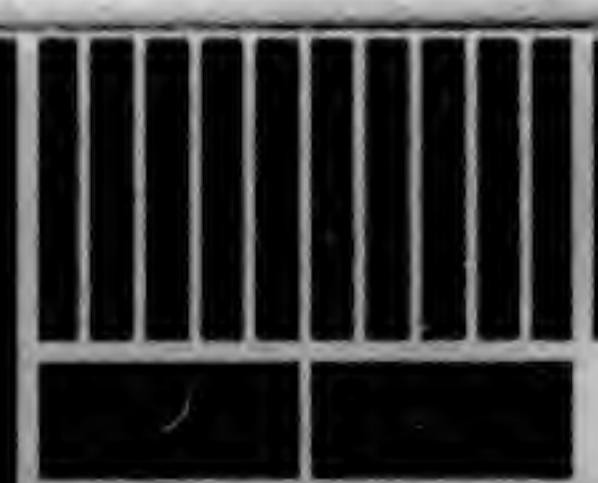


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I have examined no considerable plant
except the willow.

in breadth covered by ridges of the
thinnest and poorest prairie soil.
This cypress attains a maximum height
of 10 feet and a trunk diameter of
6 inches. It fruits heavily; I saw
numerous specimens fruiting in the
dryest places before they had attained
a stature of one foot as mentioned
by you concerning the specimen sent
you by Bolander, and I send you
another of these pignies. In this soil
Pinus muricata begins to fruit when
but 4 or 5 feet high and is never,
so far as I saw, more than a very
small tree. Here *Castanopsis*, also,
fruits at but a few feet and ob-
tains no greater height.

I send you cones of this dwarf cypress,
which approach in size those of the
large tree. I have cut a section of
a trunk to send you, which is identical,
I think, with that young tree of the other.



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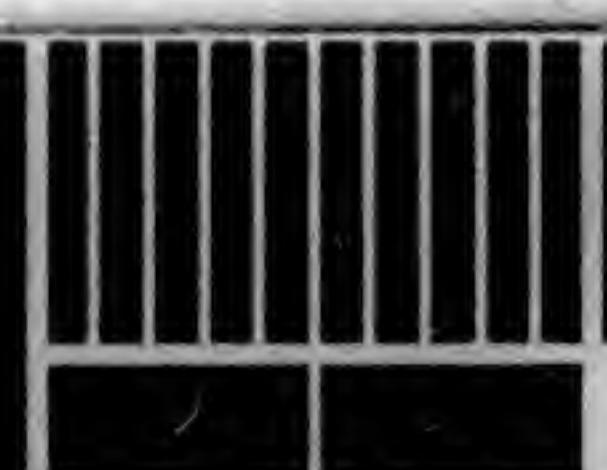
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Rec Aug 19th
Ans.

Mendocino, Cal.

August 8th, 1852.

Dear Dr. Engelmann:

As respects Cupressus I find here what I saw on the hills of Monterey and Panica Cruz. A mile or two back from the sea shore and at an elevation of 500 to 1000 feet on both sides of the river lie dry sandy plains two or three miles in extent. In the most arid portions of these a Cupressus, the same as before but you grow dark like a field of grain and but one or two feet in height fruiting freely in this condition, as noticed at Monterey. In places where the fertility of the soil is greater, or where there is more moisture, the height of the

Cupressus

Gemmules



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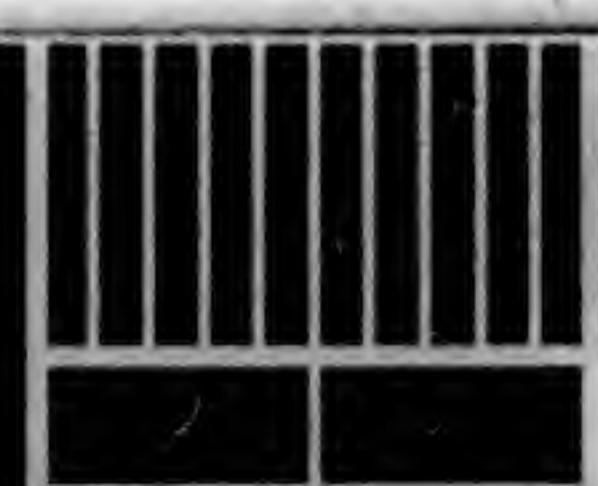


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plant is increased in proportion,
and about the ^{Gordons} ~~outskirts~~ of the
plain in the outskirts of the farms
of Loposin, Alvar grandis, Puglizza,
etc., it attains a height of 50 or 60
feet and a diameter of 15 to 22
(in our instance) inches.

On these plains it is *Pinus contorta*
which appears a dwarf in company
of the Cypress, ~~etc.~~ and fruits when
but 3 ~~ft~~ or 4 feet high, while *P.*
monilifera, choosing the better portions
of the soil, reaches a diameter of
six to eighteen inches. Amongst the
Cypresses and dwarf *Pinus Arborescens*
nummularia is very abundant, a
spreading undergrowth one or two feet
high.

I am informed of similar plain
bearing this Cypress near the mouth
of the Guadalupe River in the southern ~~part~~
part of this country and that they



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GARDEN

Kibesillah

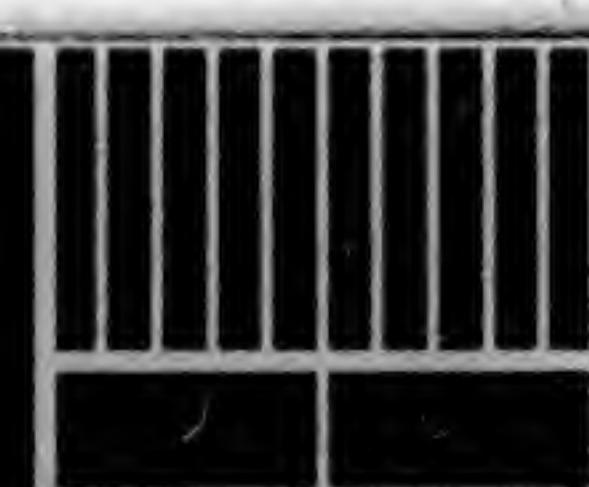
extend northward certainly as far as
the vicinity of Kibesillah. I presume
they reach into Humboldt Co.

In two parcels by mail I send you
specimens of the Cypressus, in one wood
and nature bark, in the other fruit-
bearing branches from various trees. There
is no relation between the size of the
tree and the size of the cones it yields.

Trees have been transplanted from
the plains to the towns of this zone,
and the habit of them appears precisely
like that of the "Monterey Cypress" in
all the more southern towns. I send
you a twig and two separate cones from
one of these transplanted trees; you may
recognize them from their being covered
with fine dust from the strob.

Is this Cypressus specifically distinct
from C. macrocarpa in the position which is
common often forced upon me. Your sincerely,

C. L. Shingle,
Clear Lake, Wash.



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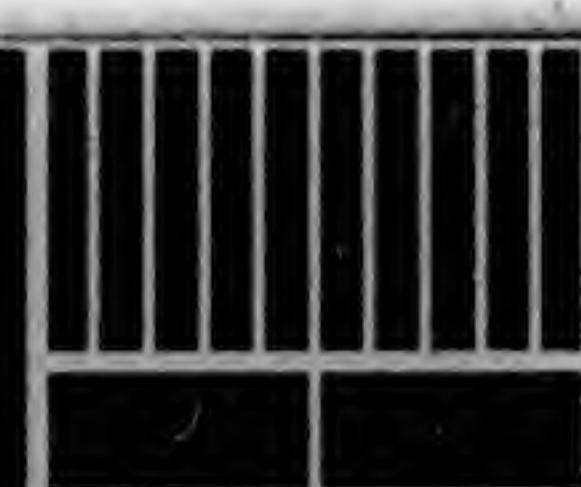
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Rec Aug 31 Brookline
Aug 21

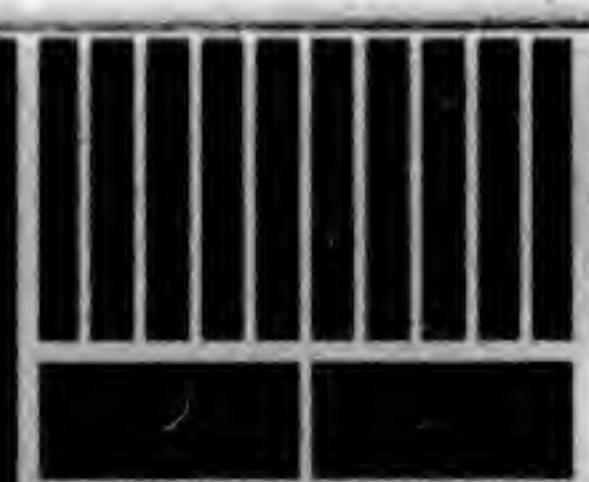
Calistoga, Cal.

Aug., 21, 1882.

Dear Dr. Engelmann:

Cypresses Prescribed

To report further on
Cypresses: On the summits of dry
hills 1000 to 2000 feet above the
surface of Clear Lake and a few
miles distant from its shores I found
the grandulosa, gummosa-leaved tree
mentioned by you. The height of adult
trees is 10 to 20 feet; at the crown or
but a few feet above the roots the
trunk ~~turns~~^{lapses} itself in numerous large
branches, so that the habit of this cypress
more nearly resembles that of Juniperus
californica than that of the other
species of Cypresses seen by me; being
round-topped and spreading rather
than spiral. I send you twigs in fruit
and flower and also old bark. Before



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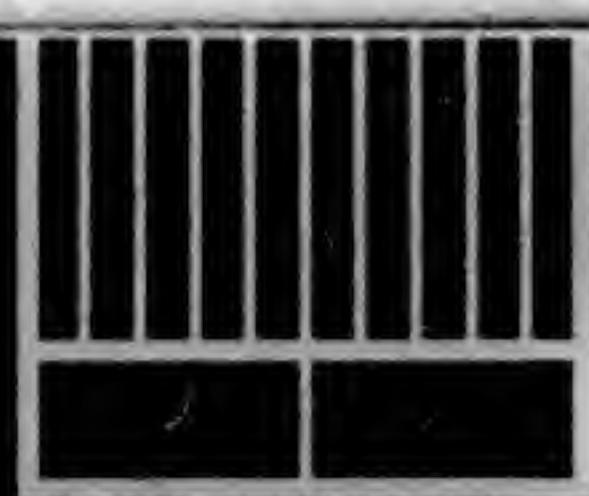
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Cyparis Giovanni

coming to these trees I passed several
trees of a species of *Cupressus*, which
were growing by streams at the base
of the hills, on which were the trees
already described. As the leaves of
these last were unlike any I had
seen in that they were somewhat
glauous and glandular, I took them
to be *C. Macnabiana*, and left my
assistant among them to get specimens
and a piece of wood and bark; so,
when I wanted to get wood of
the trees on the hills, which I had
climbed alone, I had no axe, and
could only ^{cut} off a piece of bark with
my knife. I will add respecting
these trees of the hill-tops, that I
saw specimens a foot in diameter.
When I left them I still supposed
them to be the same species as the
trees by the streams below, but made
more dwarf and gummy from their



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situations. But when I came to find
the station for Cypress near this place,
I saw at once that this Cypress, of which
Prof. Sargent has had specimens, and which
you and he have both called *C. Macnab-*
iana in letters to me, was the same as the
one seen by streams near Clear Lake. Now
in this locality (it is on the hills ten
miles north of here on the stage road
to Clear Lake, and the only cypress
ever known to Mr. Fisher and others
here, with whom I have talked about
cypress,) the cypress does not grow by streams,
as I had been led to expect, but oc-
cupies the point of a dry, rocky, and
steep hill high above the stream; and
the habit of the tree is upright and
spiral, precisely the same as that of the
trees examined along the coast from
Monterey to Mendocino; indeed, I can not
see as these California trees differ much
from those at Mendocino except that



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These leaves are more glaucous, and the glands on the back of the leaves are not visible. In the best soil toward the base of the hill are trees two feet through; but in poorer soil higher up is a dense thicket, where the trees are fruiting at a height of two to six feet.

I send you wood and twigs of this *Celtis toza* tree as well as of the over by streams near Chac Laka. I take them to be the same.

I heard of a place on hills near Chac Laka where a cypress different from the *Planifolia* one was to be found, where trees were upright, slender, and of thick growth; and I made an effort to run it, but as I travelled by stage, I failed. I must return, or after go to a location like this east of the Laka in Colima Co.

Shall begin to find letters from you, I. F. in two or three days. Yours sincerely,

C. G. Pringle.
Address as before.



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Rev Sept 5, Baddeley

Calistoga, Cal.

Aug., 24th, 1882.

Dear Dr. Engelm.:

Yesterday I was in the city and received from Dr. Kellogg your letters of July 28th, Aug., 4th and 7th. Some of the questions you ask respecting *Cupressus* have been answered already, I think, by my later letters and specimens.

In the wood of *C. Grisebachii* (?) from Mendocino you will have found heartwood; the tree cut near Santa Cruz was a fast giving over, all (or mostly) sapwood.

I sent twigs of *C. macrocarpa* from the coast of Monterey. The smaller bunch tied up separately from the rest, which were all from the hill shrubs, no mixture, just showing how the species varies, as also do my Mendocino species.

I begin to feel positive that the large



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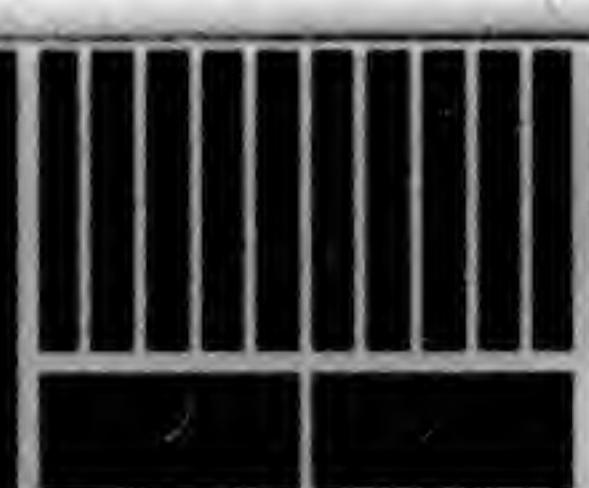
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tree of the woodlands of the sea with large
cows and large leaves and the young
dwarf of the sand barrens, with small
round cows and slender leaves with
spreading points are but the extreme forms
of a remarkably variable species. Surely
we can connect the two by intermediate
forms showing every gradation of difference
and this with respect to every character,
size and shape of cow, size, form and
color of leaf, etc. The main dots of both
are the same: the young bark of both is
smooth. I cannot think young seedlings
will show any difference, beyond the difference
of vigor, which is to be expected.

At least—I have not yet learned
to draw the line between the smaller
cows of *C. macroura* and the larger
cows, vigorous specimens of *C. formosa* (?)
as I saw at Mendocino. I wonder how
it is in European nurseries. But they may
be classified there by the cows independently



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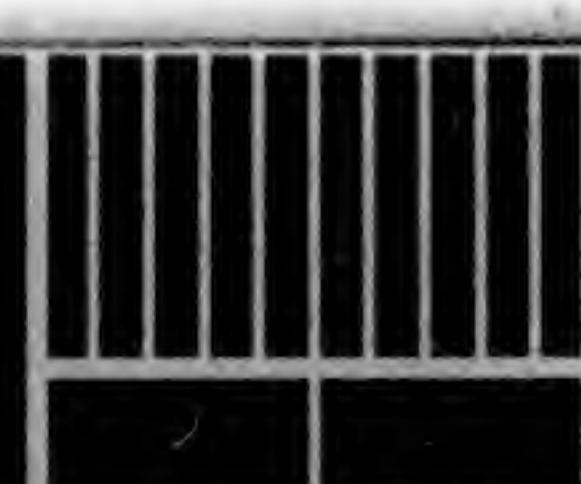
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of the fact to be observed here in their natural state.

I had a long talk yesterday with Dr. Kellogg about Cypress, and he told me what I failed to understand from him before I went to Mendocino, that many years ago, he saw a field of Cypress on the coast some five miles south of Kibbell, northern Mendocino Co., one part of which lay on the hills, where the trees were small, the other on the sea-shore where were large old trees to his view identical with those of Apion Point Monterey. What a pity I did not visit that place! It is not yet too late.

You should begin the range of C. goveniana 100 miles further south than San Sip., at least, did not Dr. Tarry send you a specimen from L. Cal? From all I can learn, I think Kibbell is its northern limit.

Next for this California tree which



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does not differ from the species just considered, so far as I can see, except in its somewhat glaucous leaves. The plants are the same, which in this other case last time they are remarkably developed, and copiously discharge a fragrant gum.

I am glad you confirm my suspicion that it was on the hills bordering the Mojave Desert that I found *Quercus* pringlei. ~~So~~ I shall now know where to get it for the Museum. In canyons there it is a round topped tree a foot through and 15 or 20 feet high.

I will mind the fruit of this and the Yucca.

Am bound to go on and for Agua Prieta.

Yours addressed as before.

Yours faithfully,

C. G. Pringle.



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Rec Sept 20th
on — 22

407, O'Farrell St.,
San Francisco, Cal.,

Sept. 13, 1882.

Dear Dr. Engelmam;

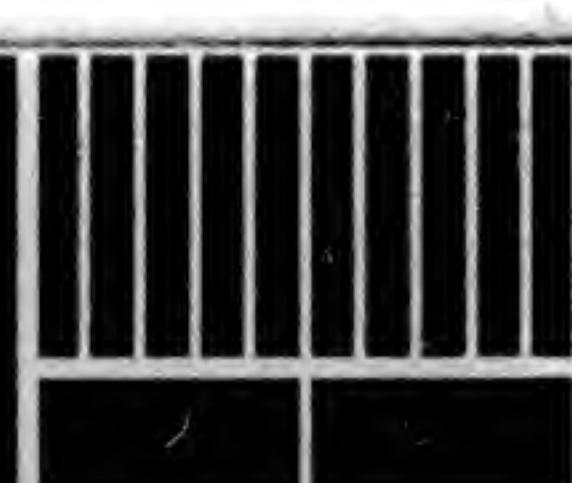
Motyle schizophaea

In some little lakes on
the mountains west of Lissom,
Strawberry Valley, I collected an
Isocetus which may and may not
be the same as I got last year
in Castle Lake not many miles
distant, and you got in Colorado.
I send you specimens, and also
a few other things I want to be
sure about.

Please fill out these labels
and forward them to Mr. Patterson
to be printed.

At Mendocino I got James
Botanderi and cupiniformis.

The Orcutt Brothers, San Diego,



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are going after Agave Brinley;
if they can't find it, I can go
later.

Yours faithfully,
C. G. Brinley.

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Rev Octob 9th

San Francisco, Cal.

Oct., 3, 1882.

Dear Dr. Engelmam:

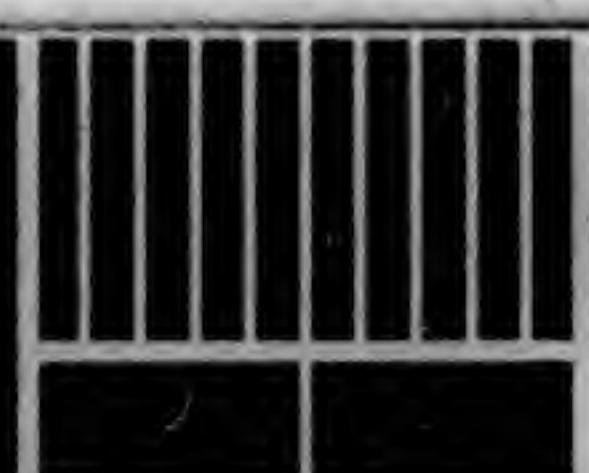
Thanks for yours of Sept. 22^d, giving names of Juniper, etc. I shall await your report on the *Cupressus* specimen with eagerness.

I send you a few more specimens for now with labels to go to Mr. Patterson.

Dr. Parry is welcomed back, and has decided to join us on a trip of a few weeks to Arizona.

Yours faithfully,

C. G. Pringle.



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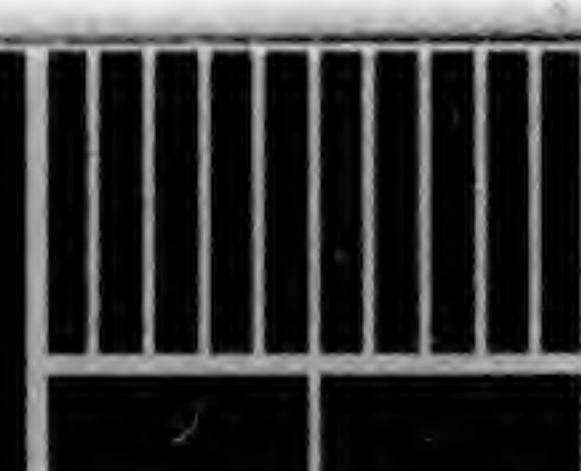
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